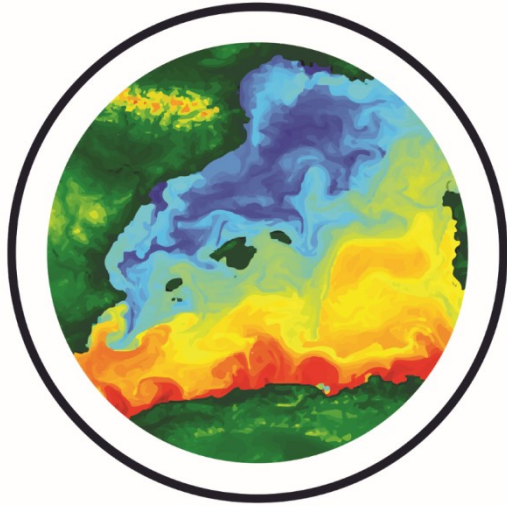


# Lecture time table



## **GODAE OceanView** International School

New Frontiers in Operational Oceanography  
2-13 October 2017, Club Pollentia Resort, Mallorca, Spain.

### **Directors**

**Ananda Pascual**, IMEDEA (CSIC-UIB), Esporles, Mallorca, Spain

**Joaquin Tintoré**, SOCIB & IMEDEA (CSIC-UIB), Palma, Mallorca, Spain

**Eric Chassignet**, COAPS, Florida State University, Tallahassee, USA




**Jacques Verron**, IGE, Grenoble, France

**GODAE OceanView**



WEEK 1								
Time	SUNDAY 1 Oct	MONDAY 2 Oct	TUESDAY 3 Oct	WEDNESDAY 4 Oct	THURSDAY 5 Oct	FRIDAY 6 Oct	SATURDAY 7 Oct	
7:30	Arrival day	International School: Registration 7:30 – 9:00						
9:00		International School: General information JACQUES VERRON ERIC CHASSIGNET ANANDA PASCUAL and JOAQUÍN TINTORÉ	General Introduction to “Ocean Variability 3” BAYLOR FOX-KEMPER, Brown University, USA	Observations: “Satellites and operational oceanography ” PIERRE-YVES LE TRAON, Mercator Océan, France	Observations: “High resolution altimetry observations 2” ROSEMARY MORROW, LEGOS, France	9:00 – 12:00  Group 1:  Visit of the R/V SOCIB (research vessel)  (B. CASAS C. CASTILLA, M. TORNER)	Models & tools: “Current status of “Modeling 2” ERIC CHASSIGNET, FSU/ COAPS, USA	
9:45		General Introduction to “Ocean Variability 1” BAYLOR FOX-KEMPER, Brown University, USA	Observations: “Unravelling meso and sub-mesoscale vertical motion ” SIMON RUIZ, IMEDEA, Spain	Observations: “SST & SSS observations and their role to constrain ocean models 1” TONY LEE, JPL, USA	Models & tools: “Current status of “Modeling 1” ERIC CHASSIGNET, FSU/COAPS, USA		Models & tools: “Multi-resolution ocean models” JULIEN LE SOMMER, IGE, France	
10:30		Break					+ Group 2:  Stay at hotel: Training on how to write a good scientific proposal and pa- per  (A.MAHADEVAN and E. MASON)	Break
11:00		General Introduction to “Ocean Variability 2” BAYLOR FOX-KEMPER, Brown University, USA	Observations: “Shelf and coastal ocean observing systems ” MONINYA ROUGHAN, UNSW, Australia	Observations: “The ocean colour opera- tional system, part of the Copernicus marine environ- ment monitoring service” GIANLUCA VOLPE, ISAC-CNR, Italy	Observations: “SST & SSS observa- tions and their role to constrain ocean mod- els 2” TONY LEE, JPL, USA	Predictions systems: “Ocean prediction: assessment from multi- platform observations” BAPTISTE MOURRE, SOCIB, Spain		
11:45		Overview of “Operational Oceanography 1” ANDREAS SCHILLER, CSIRO, Australia	Observations: “New Era of Biogeochemical Observations ” MACIEJ TELSZEWSKI, IOCCP	Observations: “Turbulent heat fluxes and applications ” MARK BOURASSA, FSU/ COAPS, USA	Models & tools: “Ocean circulations models” JULIEN LE SOMMER, IGE, France	Models & tools: “Biogeochemical modelling 1” AMALA MAHADEVAN, WHOI, USA		

13:00		Lunch					
14:00							
17:00	International School: Registration 17:00 – 21:00	<b>Overview of “Operational Oceanography 2”</b> ANDREAS SCHILLER, CSIRO, Australia	<b>Predictions systems: “Downscaling GODAE analysis systems to coastal and shelf regions”</b> JOHN WILKIN, Rutgers University, USA	<b>Observations: “Satellite altimetry ”</b> PIERRE-YVES LE TRAON, Mercator Océan, France	<b>Models &amp; tools: “Surface Waves”</b> FABRICE ARDHUIN, LOPS, France	<b>14:30 –17:30</b> <b>Groups swap from morning session</b> <b>Group 2:</b> Visit of R/V SOCIB <i>(see morning)</i>	<b>Models &amp; tools: “Towards data-driven, probabilistic ocean circulation models”</b> JULIEN LE SOMMER, IGE, France
17:45		Break					Break
18:00		<b>Observations: “International ocean observing systems application ”</b> MONINYA ROUGHAN, UNSW, Australia	<b>Observations: “Remote sensing of winds and applications”</b> MARK BOURASSA, FSU/ COAPS, USA	<b>Observations: “High resolution altimetry observations 1”</b> ROSEMARY MORROW, LEGOS, France	<b>Models &amp; tools: “Reanalysis”</b> KEITH HAINES, University of Reading, UK	<b>Group 1:</b> <b>Training at hotel</b> <i>(see morning )</i>	<b>Models &amp; tools: “Biogeochemical modelling 2”</b> AMALA MAHADEVAN, WHOI, USA
19:00		Dinner					
from 20:00		Introduction of Participants	<b>Debate 1</b> <b>Present &amp; Future of Operational Oceanography</b> <i>(with representatives of Operational Oceanography Centres)</i>	Free	Participants poster presentations	Free	Free

 Introduction	 Models & tools	 Arrival/departure days	 Evening activities
 Overview	 Prediction systems	 Joint activities	 Free time or meal periods
 Observations	 Applications		

WEEK 2						
Time	SUNDAY 8 Oct	MONDAY 9 OCT	TUESDAY 10 OCT	WEDNESDAY 11 OCT	THURSDAY 12 OCT	FRIDAY 13 OCT
9:00	Free	<b>Predictions systems:</b> <b>"System integration"</b> JEAN MICHEL LELLOUCHE, Mercator Océan, France	<b>Models &amp; tools:</b> <b>"Ensemble and Hybrid Methods in Oceanography"</b> IBRAHIM HOTEIT, KAUST, Saudi Arabia	<b>Predictions systems:</b> <b>"Biogeochemical Systems 2"</b> DAVID FORD, Met Office, UK	<b>Predictions systems:</b> <b>"Arctic predictions"</b> SYLVAIN BOUILLON, NERSC, Norway	<b>Applications:</b> <b>"Diagnosis, prognosis and management of jellyfish swarms"</b> LAURA PRIETO, ICMAN (CSIC), Spain
9:45		<b>Predictions systems:</b> <b>"Operational coastal ocean forecasting with ROMS"</b> JOHN WILKIN, Rutgers Uni- versity, USA	<b>Models &amp; tools:</b> <b>"Ice Modeling"</b> SYLVAIN BOUILLON, NERSC, Norway	<b>Predictions systems:</b> <b>"New frontier coupled prediction systems 1"</b> CHRIS HARRIS, Met Office, UK	<b>Predictions systems:</b> <b>"Model validation"</b> FABRICE HERNANDEZ, IRD/ Mercator Océan, France	<b>Applications:</b> <b>"Operational oceanogra- phy and the management of pelagic resources"</b> PATRICIA REGLERO, IEO, Spain
10:30		Break				
11:00		<b>Models &amp; tools:</b> <b>"Atmosphere and Coupled ocean-atmosphere models"</b> CHRIS HARRIS, Met Office, UK	<b>Predictions systems:</b> <b>"Biogeochemical Systems 1"</b> DAVID FORD, Met Office, UK	<b>Applications:</b> <b>"Sources and pathways of artificial marine debris"</b> NIKOLAI MAXIMENKO, University of Hawaii, USA	<b>Applications:</b> <b>"Dynamics and impacts of disaster marine debris"</b> NIKOLAI MAXIMENKO, University of Hawaii, USA	<b>Applications:</b> <b>"Operational oceanography at the service of the ports"</b> ENRIQUE ALVAREZ-FANJUL, Puertos del Estado, Spain
11:45		<b>Models &amp; tools:</b> <b>"Where are the errors?" in the context of operational Assimilation"</b> GREG JACOBS, NRL, USA	<b>Models &amp; tools:</b> <b>"New directions for DA: Selected topics"</b> IBRAHIM HOTEIT, KAUST, Saudi Arabia	<b>Applications:</b> <b>"The European Copernicus Marine Service (CMEMS)"</b> MARIE DREVILLON, Mercator Océan, France	<b>Applications:</b> <b>"Global Cooperation in Sus- tained Ocean Observing"</b> MARTIN VISBEK, GEOMAR, Germany	<b>Applications:</b> <b>"Wave propagation models for coastal oceanography"</b> ALEJANDRO ORFILA, IMEDEA (CSIC-UIB), Spain
12:30						<b>International School:</b> <b>Concluding presentation and Thanks</b>

13:00	Free	Lunch					Departures
14:00		Hands-on EUMETSAT (3TS)		Hands-on CMEMS (3TS) (M. DREVILLON, J. BEUVIER and M. BENKIRAN)			
17:00		Model & tools: “Data Assimilation Con- cept and Methods” IBRAHIM HOTEIT, KAUST, Saudi Arabia	Observations: “Optimized ocean observing system design” JOHANNES KARSTENSEN, GEOMAR, Germany	Models & tools: “Internal gravity waves” BRIAN ARBIC, University of Michigan, USA	Applications: “Applications of prediction systems” CHRIS HARRIS, Met Office, UK		
17:45		Break					
17:00		Models & tools: “Tides” BRIAN ARBIC, University of Michigan, USA	Predictions systems: “Understanding and Predict- ing El Niño and the Southern Oscillation” MIKE McPHADEN, NOAA/ PMEL, USA	Predictions systems: “New frontier coupled prediction systems 2” CHRIS HARRIS, Met Office, UK	Applications: “Operational oceanographic products to achieve sustainable development goals” NADIA PINARDI, University of Bologna, Italy		
19:00		Dinner			Final dinner		
from 20:00		Free	Debate 2 Ocean observations from space and operational ocean- ography <i>(with representatives of CNES, ESA and EUMETSAT)</i>	Free	Free		

□ Introduction

□ Models & tools

■ Arrival/departure days

□ Evening activities

□ Overview

□ Prediction systems

□ Joint activities

■ Free time or meal periods

□ Observations

□ Applications

All students are expected to **arrive on or before Sunday, 1 October 2017** and to **stay for the full duration of the school until Friday 13 October 2017**.

The school will start on 2 Oct 2017 (Monday) morning at 9 am.

## Typical day schedule

Event	Times
<b>Breakfast</b>	8:00 – 9:00
<b>Lectures</b>	9:00 – 12:30 with a break from 10:30 to 11:00
<b>Lunch</b>	13:00 – 14:00
<b>Lectures/ conferences</b>	17:00 – 18:45 with a break from 17:45 – 18:00
<b>Dinner</b>	19:00 – 20:00
<b>Evening debate</b>	(some evenings) planned from 20:00 – 21:30

The GOV International School is sponsored by:

